

Commerce Street Superfund Site Groundwater Remedial Action

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Services / Expertise

High Resolution Site Characterization
Chlorinated Solvents
Bioremediation
Injection Implementation
Community Involvement

Markets

State Government
Federal Government

Project Location

Williston, Vermont

Date Completed

2024 - Present

Project Owner

EPA Superfund

Point of Contact / Reference

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Project Team

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Subcontractors

Platform Environmental Drilling
Redox Tech
Vermont Underground Locating
Holt Gilmour Survey Associates
Arrowwood Environmental



Stone, Platform, and VT DEC staff members review injection procedures at one manifolded location on the Commerce Street Superfund Site in Williston, Vermont.

THE COMMERCE STREET Superfund Site in Williston, Vermont, has been subject to ongoing environmental investigations beginning in 1984, due to the discharge of rinse water and sludge wastes containing chlorinated solvents to an unlined lagoon. Despite several excavations of contaminated soil and the implementation of in-situ treatment technologies, an approximately 76-acre contaminant plume has remained on the site. Most recently, CDM Smith has undertaken the project with the objective of reducing chlorinated volatile organic compound concentrations using in-situ bioremediation technology.

In 2023, Stone was contracted by CDM Smith as a local environmental firm and technical lead for the final investigation and remedial implementation phases of the project. Given the complex nature of the site's plume, Stone implemented a dynamic investigation strategy to not only develop a firm understanding of the plume makeup, but also ensure all aspects of the site's environmental challenges were addressed. This has included collaboration with specialized ecological and surveying partners to support wetland delineation, ecological assessments, and geophysical survey as well as community engagement with the town of Williston, surrounding residents, and businesses.

As part of the site characterization investigation to support injection design, Stone conducted sampling of soil and groundwater media in over 150 locations using



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historic and newly installed wells, screen point samplers, soil cores, and pressure transducers. Stone also completed a pilot amendment injection study to generate the physical (hydraulic response and injection behavior), chemical (baseline and amendment indicator parameters), and lithologic (stratigraphy and target interval confirmation) data needed to refine well spacing, injection volumes/pressures, and target intervals for the full-scale injection design.

Beginning in 2025, Stone began implementing large-scale remedial actions consisting of six treatment alignments utilizing more than 230 injection wells. Through 2025 and the spring of 2026, our team has delivered an injection amendment consisting of emulsified vegetable oil, pH buffer, and bioaugmentation culture to each well. We continue to manage all environmental drilling and injection activities, including the installation and periodic sampling of over 40 monitoring wells and the implementation of an on-site water treatment system for all purge and rinse water derived during remedial action.

The project highlights our expertise in high-resolution site characterization, contaminant geology, remedial design, and large-scale project support. Stone continues to manage the site's bioremediation efforts, presently valued at over \$14 million, and has been recognized for developing and applying advanced approaches to site assessment and remediation.



Stone staff members monitor injection procedures at the Commerce Street Superfund Site in Williston, Vermont.



Drill rig transportation through a wetland with temporary road construction at the Commerce Street Superfund Site in Williston, Vermont.

